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NPIC/TDS/D-946-67
24 July 1967

MEMORANDUM FOR: Director of Special Projects, DDS&T/OSP

ATTENTION : [] Advanced Projects Facility

SUBJECT : Data Recording and Reading

REFERENCE : [] Dated 21 July 1967

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1. On 18-19 July 1967, [] NPIC, and [] visited [] for the purpose of determining the reading capability of the Multi-format Reader being developed by []

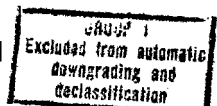
2. [] was supplied the original negatives and a second generation dupe positive of simulation material from CR-1, Instrument #302, which was made prior to 7 July 1967. [] had with him test material from the same instrument and also material from Instrument #303 - all made after 7 July 1967. These materials were all tested on the Multifformat Data Block Reader (MFDBR) with varying results. The material made prior to 7 July contained all three processing levels on both the negative and the dupe positive and contained some excellent data blocks - from a visual examination. However, none of the data could be read by the MFDBR. Further investigation showed that the data dots were too small for the diode array on the reader to pick up, that clamping in the camera system was not uniform and that spurious signals or ghosting was evident.

The material supplied by [] which was more recent acquisition, was read but not to the satisfaction of those in attendance. The 302 film contained ghosting and small dots while in the 303 film there was evidence of blooming. This latest material was original negative only, so there was no way to ascertain what may have been evident on a dupe positive copy, which NPIC will use operationally on the reader since the O.H. is not available to the Center in time. However, other test material has shown that small dots on the negative become even smaller on the positive and that non-uniform clamping becomes more evident on the positive.

Declass Review By NIMA/DOD

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3. From the test material furnished thus far for this camera system, the only conclusion that can be drawn is that the possibility of reading the primary camera data blocks is marginal. It should be pointed out that the positioning of the recording head with respect to the film is extremely critical and can cause varying dot size and blooming effects. Additionally, improper clamping can also cause the blooming effect as well as a variance in density from one end of the data block to the other.

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4. Invitation was again extended by [] to discuss the recording head installation and adjusting with anyone desirous of doing so.

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[]
Assistant for Technical Development, NPIC

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